

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2005/001471

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F04B47/06, E21B43/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F04B47/06, 47/12, 47/02, 47/00, E21B43/00, 43/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Chinese Inventions 1985-2005; Chinese Utility Models 1985-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI EPODOC PAJ CNPAT

pump, oil, rod, motor, electric+

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN,Y,2599279(XINCHENG PETROLEUM MACHINERY FACTORY,SHENYANG)14.Jan.2004(14.01.2004), pagelline6-page31line18,figures1-3	1,8
A	CN,A,1415858(LI,Hualin)07.May2003(07.05.2003), the whole document	1-8
A	CN,Y,2555422(JIANGShuwen)11.Ju ne2003(11.06.2003), the whole document	1-8
A	CN,Y,2623872(SUN,Ping)07July2004(07.07.2004), the whole document	1-8

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

15.Nov.2005(15.11.2005)

Date of mailing of the international search report

15. Dec. 2005 (15.12.2005)

Name and mailing address of the ISA/CN

The State Intellectual Property Office, the P.R.China
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100088

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CN2005/001471

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CNY,2599279	14.01.2004	none	
CN,A,1415858	07.05.2003	none	
CN,Y,2555422	11.06.2003	none	
CN,Y,2623872	07.07.2004	none	

国际检索报告

国际申请号

PCT/CN2005/001471

A 主题的分类

IPC 7 F04B47/06, E21B43/00

按照因阮寺利分突表(IPC)或者同时按照国家分突和 IPC 丙种分类

B 检索领域

检索的最低限度文献(标明分类系统和分类号)

IPC 7 F04B47/06, 47/12, 47/02, 47/00, E21B43/00, 43/12

包含在检索领域中的除最低限度文献以外的检索文献

中国发明专利 1985-2005; 中国实用新型专利 1985-2005

在因阮检索时查到的唱子数据件(数据件的名录, 和使用的检索词 (如使用))

WPI EPODOC PAJ CNPAT

泵, 油, 潜油, 元杆, 屯劫 pump, oil, rod, motor, electric+

C 相关文件

突 型*	引用文件, 必要时, 指明相关段落	相关的权利要求
X	CN,Y,2599279(沈阳市新城石油机械厂)14 1 月 2004(14.01.2004), 兄税明弔的第 1 页第 6 行-第 3 页第 18 行及附图 1-3	1,8
A	CN,A,1415858(李竿林)07 5 月 2003(07.05.2003), 兄兢明弔全文	1-8
A	CNY,2555422(姜樹文)11 6 月 2003(11.06.2003), 兄槐明宅全文	1-8
A	CN,Y,2623872(孙平)07.7 月 2004(07 .07.2004), 兄况明福全文	1-8

D 其余文件在 C 柱的续页中列出。

因 兄同族专利附件。

* 引用文件的具体类型:

"A" 队力不特别相关的表示了拥有技术一般伏悉的文件

"E" 在因阮申请日的当芭泛后公布的在先制龍转利

"L" 可能肘仇先权要求构成怀疑的文件, 或力确定另一篇
引用文件的公布日而引用的或者因其他特殊理由而引
用的文件

"O" 涉及口央公开、使用、展塊或其他方式公开的文件

"P" 公布日先于因阮申请日但退于所要求的仇先权日的文件

"T" 在申清日或仇先权日之后公布, 占申清不相抵触, 但力了
理解发明之理捻或原理的在后文件

"X" 特别相关的文件, 草狙考虑核文件, 队定要求保扣的
友明不是新颖的或不具有创造性

"Y" 特别相关的文件, 习核文件匀另一篇或者多篇核突文件
結合并且迭神拈合肘于本领域技术人员力显而易凡肘,
要求保折的友明不具有创造性

"&" 同族言利的文件

防检索突阮完成的日期

15.11 月 2005(15.11.2005)

阮检索报告邮寄日期

15.11 月 2005 (15.11.2005)

中华人民共和国国家知识产权局(ISA/CN)

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國際稔案報告
关于同族专利的信息

國際申請号
PCT/CN2005/001471

检索报告中引用的 专利文件	公布日期	同族专利	公布日期
CN,Y,2599279	14.01.2004	元	
C臥A,1415858	07.05.2003	元	
CN,Y,2555422	11.06.2003	元	
CN,Y,2623872	07.07.2004	元	